AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for performing Traffic Flow Template (TFT) filtering according to Internet Protocol (IP) versions in a mobile communication system ~~capable of supporting an address of a first IP version including first bits and an address of a second IP version including second bits containing the first bits~~, the method comprising the steps of:

extracting a first IP version address ~~based information~~ from a source second IP version address, wherein the second IP version address contains the first IP version address; and

generating TFT information using the first IP version address, wherein the TFT information contains an indication that the second IP version address contains the first IP version address; and ~~containing the extracted information and~~

transmitting the ~~generated~~ TFT information to a Gateway GPRS (General Packet Radio Service) Support Node (GGSN).

2 – 6 (Canceled)

7. (Currently Amended) A method for performing Traffic Flow Template (TFT) filtering according to Internet Protocol (IP) versions in a mobile communication system ~~capable of supporting an address of a first IP version including first bits and an address of a second IP version including second bits containing the first bits~~, the method comprising the steps of:

[[when]]receiving a first TFT information from a mobile station which includes a ~~is received and the received TFT information corresponds to the~~ second IP version address, wherein the second IP version address contains ~~into which the~~ a first IP version address ~~is inserted;, extracting the first bits of the first IP version address from the second IP version address~~;

generating [[new]] a second TFT information from the extracted first bits of the using the first IP version address, wherein the second TFT information contains an indication that the second IP version address contains the first IP version address; and

when an IP address of received packet data corresponds to the second IP version and the IP address is the second IP version address into which the first IP version address is inserted, extracting the first bits representing the first IP version address from the second IP version address; and

performing the TFT packet filtering a received packet using the first bits extracted from the received packet data second TFT information.

8 – 11 (Canceled)

12. (Currently Amended) [[A]]The method as set forth in claim 1, further comprising for performing Traffic Flow Template (TFT) filtering according to Internet Protocol versions in a mobile communication system capable of supporting an address of a first IP version including first bits and an address of a second IP version including second bits containing the first bits, the method comprising the steps of:

when a source IP address is the second IP address into which the first IP version address is inserted, allowing User Equipment (UE) to extract the first bits of the first IP version address from the second IP version address to perform the steps of extracting, generating TFT information and transmitting the generated TFT information to a Gateway GPRS (General Packet Radio Service) Support Node (GGSN);

allowing the UE to generate packet filter contents from the extracted first bits of the first IP version address, to generate TFT information containing the packet filter contents, and to transmit the generated TFT information to a Gateway GPRS (General Packet Radio Service) Support Node (GGSN);

allowing the GGSN to store the TFT information received from the UE and to extract the first bits representing the first IP version address from the second IP version address when an IP address of received packet data corresponds to the second

~~IP version and the IP address is~~ the second IP version address ~~into which~~ has the first IP version address [[is]] inserted; and

allowing the GGSN to perform the TFT packet filtering using the ~~first bits~~ extracted ~~from the received packet data~~ first IP version address.

13. (Currently Amended) The method as set forth in claim 1, 7 or 12, wherein the second IP version address into which the first IP version address is inserted is a first IP version-compatible second IP version address or a first IP version-mapped second IP version address.

14. (Original) The method as set forth in claim 13, wherein the first IP version-compatible second IP version address is an address used between networks capable of supporting both a first IP of the first IP version and a second IP of the second IP version.

15. (Original) The method as set forth in claim 13, wherein the first IP version-mapped second IP version address is an address used between a network capable of supporting only a first IP of the first IP version and a network capable of supporting both the first IP of the first IP version and a second IP of the second IP version.

16. (Currently Amended) The method as set forth in claim 1, 7 or 12, wherein the first IP version is an IPv4 (IP version 4) and the second IP version is an IP version 6 (IPv6).

17. (Currently Amended) An apparatus for performing Traffic Flow Template (TFT) filtering according to Internet Protocol (IP) versions in a mobile communication system ~~capable of supporting an address of a first IP version including first bits and an address of a second IP version including second bits containing the first bits~~, the apparatus comprising:

receiving means for receiving a first TFT information from a mobile station which includes a second IP version address, wherein the second IP version address contains a first IP version address;

means for generating a second TFT information using the first IP version address, wherein the second TFT information contains an indication that the second IP version address contains the first IP version address; and

filtering means for filtering a received packet using the second TFT information.

a controller for extracting the first bits of the first IP version address from the second IP version address when TFT information is received and the received TFT information corresponds to the second IP version address into which the first IP version address is inserted, and for generating new TFT information from the extracted first bits of the first IP version address; and

a memory for storing the received TFT information as the new TFT information.

18. (Currently Amended) The apparatus as set forth in claim 17, wherein said filtering means the controller comprises:

a TFT packet filtering procedure for extracting the first bits representing the first IP version address from the second IP version address when an IP address of received packet data corresponds to the second IP version and the IP address is the second IP version address into which the first IP version address is inserted, and for performing the TFT packet filtering using the first bits extracted from the received packet data second TFT information.

19 – 22 (Canceled)

23. (Currently Amended) An apparatus for performing Traffic Flow Template (TFT) filtering according to Internet Protocol (IP) versions in a mobile communication system ~~capable of supporting an address of a first IP version including first bits and an address of a second IP version including second bits containing the first bits~~, the apparatus comprising:

a controller ~~User Equipment (UE)~~ for extracting ~~the first bits of the~~ a first IP version address from [[the]]a second IP version address, [[when]]wherein ~~a source IP address is~~ the second IP version address ~~into which the~~ contains a first IP version address ~~is inserted~~, and for generating TFT information from the ~~extracted first bits of the~~ first IP version address, wherein the TFT information contains an indication that the second IP version address contains a first IP version address; and

transmission means for transmitting the ~~generated~~ TFT information to a Gateway GPRS (General Packet Radio Service) Support Node (GGSN)~~; and~~.

~~the GGSN for storing the TFT information received from the UE, for extracting the first bits representing the first IP version address from the second IP version address when an IP address of received packet data corresponds to the second IP version and the IP address is the second IP version address into which the first IP version address is inserted, and for performing the TFT packet filtering using the first bits extracted from the received packet data.~~

24. (Currently Amended) The apparatus as set forth in claim 23, further comprising the Gateway GPRS (General Packet Radio Service) Support Node (GGSN) which ~~wherein the GGSN~~ comprises:

a TFT packet filtering procedure for extracting ~~the first bits representing~~ the first IP version address from the second IP version address when the IP address of the received packet data corresponds to the second IP version and the IP address is the second IP version address into which the first IP version address is inserted, and for performing the TFT packet filtering using the first ~~bits extracted from the received packet data~~ IP version address; and

a memory for storing the TFT information received from the UE.

25. (Currently Amended) The apparatus as set forth in claim 17 or 23, wherein the second IP version address into which the first IP version address is inserted is a first IP version-compatible second IP version address or a first IP version-mapped second IP version address.

26. (Original) The apparatus as set forth in claim 25, wherein the first IP version-compatible second IP version address is an address used between networks capable of supporting both a first IP of the first IP version and a second IP of the second IP version.

27. (Original) The apparatus as set forth in claim 25, wherein the first IP version-mapped second IP version address is an address used between a network capable of supporting only a first IP of the first IP version and a network capable of supporting both the first IP of the first IP version and a second IP of the second IP version.

28. (Currently Amended)The apparatus as set forth in claim 17 or 23, wherein the first IP version is an IP version 4 (IPv4) and the second IP version is an IP version 6 (IPv6).